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 Russell Greiner , Christian Darken , N. Iwan Santoso
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 Michael Lucks , Ian Gladwell
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 Current approaches to recommending mathematical software are qualitative and categorical. These approaches are unsatisfactory when the problem to be solved has features that can "trade-off" in the recommendation process. A quantitative system is proposed that permits tradeoffs and can be built and modified incrementally. This quantitative approach extends other knowledge-engineering techniques in its knowledge representation and aggregation facilities. The system is demonstrated ...
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 Tod A. Sedbrook
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 A convergence of Internet and fuzzy logic technologies provides an opportunity for experts and end users to collaborate in developing, refining, and testing knowledge-based systems. Internet technology removes geographical and time-based restraints, and fuzzy rule bases are easier to understand and maintain. This paper describes an architecture and a prototype for developing, delivering, and maintaining expert systems on the World Wide Web. The system's collaboration components allowed experts to ...
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 This paper describes a method for performing knowledge base (re)organization in expert systems oriented to classification, interpretation and diagnosis problems. The methodology can be applied either to the input descriptions of a set of samples, giving thus a preliminary characterization of groups of samples, or to a set of intermediate level descriptions, supplied by a human expert or previously automatically learned. An example of application is also given.
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 Howard Turtle , W. Bruce Croft
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Armstrong, J.M.; Heathfield, H.A.;
Applications and Experience of Object-Oriented Design, IEE Colloquium on , 24 Jan 1991
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[\[Abstract\]](#) [\[PDF Full-Text \(160 KB\)\]](#) **IEEE CNF****17 Human-computer interaction in a medical decision support system**

Hudson, D.L.; Cohen, M.E.;
System Sciences, 1989. Vol.II: Software Track, Proceedings of the Twenty-Second Annual Hawaii International Conference on , 3-6 Jan 1989
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[\[Abstract\]](#) [\[PDF Full-Text \(420 KB\)\]](#) **IEEE CNF****18 Combination of a neural network model and a rule-based expert system to determine efficacy of medical testing procedures**

Cohen, M.E.; Hudson, D.L.; Anderson, M.F.;
Engineering in Medicine and Biology Society, 1989. Images of the Twenty-First Century. Proceedings of the Annual International Conference of the IEEE Engineering in , 9-12 Nov 1989
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A hybrid case-based medical diagnosis system

Chien-Chang Hsu Cheng-Seen Ho

Dept. of Electron. Eng., Nat. Taiwan Univ. of Sci. & Technol., Taipei;

This paper appears in: Tools with Artificial Intelligence, 1998.

Proceedings. Tenth IEEE International Conference on

11/10/1998 -11/12/1998, 10-12 Nov 1998

Location: Taipei, Taiwan

On page(s): 359-366

10-12 Nov 1998

References Cited: 15

IEEE Catalog Number: 98CH36294

Number of Pages: xviii+483

INSPEC Accession Number: 6155541

Abstract:

This paper proposes a hybrid case-based system to help the physician. It includes a hypermedia human-machine interface and a hybrid case-based reasoner. The hypermedia human-machine interface provides a friendly human body image map for the clinician to easily enter a given consultation. It utilizes a medicine-related commonsense knowledge base to help complete the input data during the consultation. The hybrid case-based reasoner is responsible for selecting and adapting relevant cases from the case library into a diagnosis for the consultation. This reasoner does those jobs by hybridizing many techniques. Basically it uses a distributed fuzzy neural network for case retrieval. It employs decision theory, constrained induction trees, and relevance theory for case adaptation involving case combination. The technique is also used for learning new cases into the case library. Hybridizing these techniques together can effectively produce a high quality diagnosis for a given medical consultation

Index Terms:

case-based reasoning decision theory fuzzy neural nets hypermedia medical
diagnostic computing medical expert systems multimedia computing patient
diagnosis trees (mathematics) user interfaces case adaptation case combination
case library case retrieval clinician constrained induction trees consultation decision
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Matsumoto, T.; Ueda, Y.; Kawaji, S.; Matsumoto, T.; Ueda, Y.; Kawaji, S.;
Computer-Based Medical Systems, 2002. (CBMS 2002). Proceedings of the 15th IEEE Symposium on , 2002
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2 A method for diagnosing multiple diseases in MUNIN
Suojanen, M.; Andreassen, S.; Olesen, K.G.;
Biomedical Engineering, IEEE Transactions on , Volume: 48 Issue: 5 , May 2001
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3 A new concept toward computer-aided medical diagnosis - a prototype implementation addressing pulmonary diseases
Economou, G.-P.; Lymberopoulos, D.; Karavatselou, E.; Chassomeris, C.;
Information Technology in Biomedicine, IEEE Transactions on , Volume: 5 Issue: 1 , Mar 2001
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4 Impact of approximate reasoning on diagnosis in the EMERGE system
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5 Stanford University's AI in medicine: still cutting the edge
Hedberg, S.R.;
Intelligent Systems, IEEE [see also IEEE Expert] , Volume: 13 Issue: 1 , Jan/Feb 1998
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6 Structuring medical information for computer-assisted decision support
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7 Fuzzy neural networks versus alternative approaches in medical decision support

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13 Fuzzy logic approaches to intelligent alarms

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1 Fuzzy neural expert system with automated extraction of fuzzy If-Then rules from a trained neural network

Hayashi, Y.; Imura, A.;

Uncertainty Modeling and Analysis, 1990. Proceedings., First International Symposium on , 3-5 Dec 1990

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Guazzelli, A.; de Faria Leao, B.;

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7 An idea of the application of fuzzy neural networks to medical decision support systems

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8 An automated ECG classification system based on a neuro-fuzzy system

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is available. Similar non-standard examples from **medicine** are described in (Gilks, Clayton, Spiegelhalter,
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like deviations in Artificial Intelligence in **Medicine** 24 (2002) 167-178 *Corresponding author. may perform better than the rule-based **expert** systems, if trained properly. Bearing this in artificial neural networks (ANNs) 4,21,26-29] **fuzzy** logic [31,32] or other signal analysis techniques www.cs.uoi.gr/~arly/papers/ischemia_neural.pdf

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